TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 580-15723-1

Job Description: Rainier Commons

For:
Clean Harbors Environmental Services Inc
19320 Des Moines Memorial Dr
Bldg D, Suite 400
Seatac, WA 98148

Attention: Shawn Estrada

Approved for release
Heather Curbow
Project Manager I
10/9/2009 12:50 PM

Heather Curbow
Project Manager I
heather.curbow@testamericainc.com
10/09/2009

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

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ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15723-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAC	SW846 8082	
Ultrasonic Extraction	TAL TAC		SW846 3550B
Metals (ICP)	TAL TAC	SW846 6010B	
Preparation, Metals	TAL TAC		SW846 3050B

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

SW846 = "Test Methods For Evaluating Solid.Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15723-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-15723-1	RC 91509	Solid	09/28/2009 0000	09/28/2009 1100

Client: Clean Harbors Environmental Services Inc Job Number: 580-15723-1

Client Sample ID: **RC 91509**

Lab Sample ID: 580-15723-1 Date Sampled: 09/28/2009 0000
Client Matrix: Solid % Moisture: 9.0 Date Received: 09/28/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 580-51544		Instrument ID:	TAC034
Preparation:	3550B	Prep Batch: 580-51334		Initial Weight/Volume:	10.1705 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Date Analyzed:	10/07/2009 1148			Injection Volume:	1.0 uL
Date Prepared:	10/02/2009 1347			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
PCB-1016		ND		0.011
PCB-1221		ND		0.011
PCB-1232		ND		0.011
PCB-1242		ND		0.011
PCB-1248		ND		0.011
PCB-1254		0.49		0.011
PCB-1260		0.49		0.011

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	121		45 - 155
DCB Decachlorobiphenyl	98		60 - 125

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15723-1

Client Sample ID: **RC 91509**

Lab Sample ID: 580-15723-1
Client Matrix: Solid
% Moisture: 9.0
Date Sampled: 09/28/2009 0000
Date Received: 09/28/2009 1100

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-51681		Instrument ID:	SEA027
Preparation:	3050B	Prep Batch: 580-51621		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.1224 g
Date Analyzed:	10/08/2009 1550			Final Weight/Volume:	50 mL
Date Prepared:	10/08/2009 0944				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		34		1.5

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15723-1

Method Blank - Batch: 580-51334

Method: 8082
Preparation: 3550B

Lab Sample ID: MB 580-51334/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2009 1101
Date Prepared: 10/02/2009 1347

Analysis Batch: 580-51544
Prep Batch: 580-51334
Units: mg/Kg

Instrument ID: TAC034
Lab File ID: PCB24246.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		0.010
PCB-1221	ND		0.010
PCB-1232	ND		0.010
PCB-1242	ND		0.010
PCB-1248	ND		0.010
PCB-1254	ND		0.010
PCB-1260	ND		0.010

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	97	45 - 155
DCB Decachlorobiphenyl	97	60 - 125

Lab Control Sample - Batch: 580-51334

Method: 8082
Preparation: 3550B

Lab Sample ID: LCS 580-51334/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2009 1117
Date Prepared: 10/02/2009 1347

Analysis Batch: 580-51544
Prep Batch: 580-51334
Units: mg/Kg

Instrument ID: TAC034
Lab File ID: PCB24247.D
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	0.100	0.0904	90	40 - 140	
PCB-1260	0.100	0.0945	94	60 - 130	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	99	45 - 155
DCB Decachlorobiphenyl	97	60 - 125

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15723-1

Method Blank - Batch: 580-51621

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 580-51621/14-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1516
Date Prepared: 10/08/2009 0944

Analysis Batch: 580-51681
Prep Batch: 580-51621
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		1.5

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-51621

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-51621/15-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1519
Date Prepared: 10/08/2009 0944

Analysis Batch: 580-51681
Prep Batch: 580-51621
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-51621/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2009 1522
Date Prepared: 10/08/2009 0944

Analysis Batch: 580-51681
Prep Batch: 580-51621
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	100	100	80 - 120	0	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

15723

CleanHarbors ENVIRONMENTAL SERVICES®

CHAIN OF CUSTODY RECORD PAGE _____ OF _____

☐ 1 Hill Avenue, Braintree, MA 02184 Tel. (781) 849-1800
☐ 2202 Genoa Red Bluff Road, Houston, TX 77034 Tel. (281) 478-7700
☐ RTE. 2, Box 170, Waynoka, OK 73860 Tel. (580) 697-3500
☐ 5295 S. Garvey Road, Westmorland, CA 92281 Tel. (760) 344-9400
☐ 12400 247th Avenue SE, Sawyer, ND 58781 Tel. (701) 624-5622
☐ Other

Client: CLEAN HARBORS Project Name: Rainier Commons Work Order/P.O. #: _____ Date: 9/28/09

Report To: Shawn Estrada Address: 19320 Des Moines Memorial Drive Phone #: 206 290 0632

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Matrix	Analysis: 6010B LEAD	8082 PCB										# of con.	CHES Sample #
RC 91509	9/28																

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Relinquished by Sampler: Adam Parker/Clean Harbors
Date: 9/28/09 Time: 1100

Received by: Tom Hamilton
Date: 9/28/09 Time: 1100

Relinquished by Sampler: _____
Date: _____ Time: _____

Received by: _____
Date: _____ Time: _____

VOA Vial								
Glass Bottle								
Plastic Bottle								
Preservation								
Volume								

DOT Shipping Name:

COMMENTS: (Fax Number, cautions, special instructions)

IR=19.0°c
walk in, No cooler, no ice

Standard laboratory turnaround time is 1 week from date of receipt. Accelerated turnaround may be assessed a surcharge.

Location of samples: _____

Turnaround: 24 Hrs. 48 Hrs. 1 Week Other: _____

CH 119

OFFICE COPY

Login Sample Receipt Check List

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15723-1

Login Number: 15723
Creator: Blankinship, Tom
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	Received within 4 hours of sampling
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
mple bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	N/A	